

GCACCGCGCG AGCTTGGCTG CTTCTGGGGC CTGTGTGGCC CTGTGTGTCTG GAAAGATGGA  
 GCAAGAAGCC GAGCCCGAGG GGCGGCCGCG ACCCCTCTGA CCGAGATCCT GCTGCTTTTCG  
 CAGCCAGGAG CACCGTCCCT CCCCGGATTA GTGCGTACGA GCGCCAGTG CCCTGGCCCCG  
 GAGAGTGGAA TGATCCCCGA GGCCAGGGC GTCGTGCTTC CGCAGTAGTC AGTCCCCGTG  
 AAGGAACTG GGGAGTCTTG AGGGACCCCC GACTCCAAGC GCGAAAACCC CGGATGGTGA  
 GGAGCAGGCA AATGTGCAAT ACCAACATGT CTGTACCTAC TGATGGTGCT GTAACCACCT  
 CACAGATTCC AGCTTCGGAA CAAGAGACCC TGGTTAGACC AAAGCCATTG CTTTTGAAGT  
 TATTAAAGTC TGTGTTGCA CAAAAAGACA CTTATACTAT GAAAGAGGTT CTTTTTTATC  
 TTGGCCAGTA TATTATGACT AAACGATTAT ATGATGAGAA GCAACAACAT ATTGTATATT  
 GTTCAAATGA TCTTCTAGGA GATTTGTTTG GCGTGCCAAG CTTCTCTGTG AAAGAGCACA  
 GGAAAATATA TACCATGATC TACAGGAACT TGGTAGTAGT CAATCAGCAG GAATCATCGG  
 ACTCAGGTAC ATCTGTGAGT GAGAACAGGT GTCACCTTGA AGGTGGGAGT GATCAAAAGG  
 ACCTTGATACA AGAGCTTCAG GAAGAGAAAC CTTTCATCTT ACATTGGTT TCTAGACCAT  
 CTACCTCATC TAGAAGGAGA GCAATTAGTG AGACAGAAGA AAATTCAGAT GAATTATCTG  
 GTGAACGACA AAGAAAACGC CACAAATCTG ATAGTATTTT CTTTTCTTTT GATGAAAGCC  
 TGGCTCTGTG TGTAATAAGG GAGATATGTT GTGAAAGAAG CAGTAGCAGT GAATCTACAG  
 GGACGCCATC GAATCCGGAT CTTGATGCTG GTGTAAGTGA ACATTCAGGT GATTGGTTGG  
 ATCAGGATTC AGTTTCAGAT CAGTTTAGTG TAGAATTTGA AGTTGAATCT CTCGACTCAG  
 AAGATTATAG CCTTAGTGAA GAAGGACAAG AACTCTCAGA TGAAGATGAT GAGGTATATC  
 AAGTTACTGT GTATCAGGCA GGGGAGAGTG ATACAGATTC ATTTGAAGAA GATCCTGAAA  
 TTTCTTTAGC TGACTATTGG AAATGCACTT CATGCAATGA AATGAATCCC CCCCTTCCAT  
 CACATTGCAA CAGATGTTGG GCCCTTCGTG AGAATTGGCT TCCTGAAGAT AAAGGGAAAG  
 ATAAAGGGGA AATCTCTGAG AAAGCCAAAC TGGAAAACCT AACACAAGCT GAAGAGGGCT  
 TTGATGTTCC TGATTGTAAA AAACTATAG TGAATGATTC CAGAGAGTCA TGTGTTGAGG  
 AAAATGATGA TAAAATTACA CAAGCTTCAC AATCACAAGA AAGTGAAGAC TATTCTCAGC  
 CATCAACTTC TAGTAGCATT ATTTATAGCA GCCAAGAAGA TGTGAAAGAG TTTGAAAGGG  
 AAGAAACCCA AGACAAAGAA GAGAGTGTGG AATCTAGTTT GCCCCTTAAT GCCATTGAAC  
 CTTGTGTGAT TTGTCAAGGT CGACCTAAAA ATGGTTGCAT TGTCCATGGC AAAACAGGAC  
 ATCTTATGGC CTGCTTTACA TGTGCAAAGA AGCTAAAGAA AAGGAATAAG CCCTGCCCAG  
 TATGTAGACA ACCAATTCAA ATGATTGTGC TAACTTATTT CCCCTAGTTG ACCTGTCTAT  
 AAGAGAATTA TATATTTCTA ACTATATAAC CCTAGGAATT TAGACAACCT GAAATTTATT  
 CACATATATC AAAGTGAGAA AATGCCTCAA TTCACATAGA TTTCTTCTCT TTAGTATAAT  
 TGACCTACTT TGGTAGTGGA ATAGTGAATA CTTACTATAA TTTGACTTGA ATATGTAGCT  
 CATCCTTTAC ACCAACTCCT AATTTTAAAT AATTTCTACT CTGTCTTAAA TGAGAAGTAC  
 TTGGTTTTTT TTTTCTTAAA TATGTATATG ACATTTAAAT GTAACCTATT ATTTTTTTTG  
 AGACCGAGTC TTGCTCTGTT ACCCAGGCTG GAGTGCAGTG GGTGATCTTG GCTCACTGCA  
 AGCTCTGCCC TCCCCGGGTT CGCACCATTG TCCTGCCTCA GCCTCCCAAT TAGCTTGGCC  
 TACAGTCATC TGCCACCACA CCTGGCTAAT TTTTGTACT TTTAGTAGAG ACAGGGTTTC  
 ACCGTGTTAG CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCCGCCCCAC CTCGGCCTCC  
 CAAAGTGCTG GGATTACAGG CATGAGCCAC CG

FIG. 1A

GAGGAGCCGC CGCCTTCTCG TCGCTCGAGC TCTGGACGAC CATGGTCGCT CAGGCCCCGT  
 CCGCGGGGCC TCCGCGCTCC CCGTGAAGGG TCGGAAGATG CGCGGGAAGT AGCAGCCGTC  
 TGCTGGGCGA GCGGGAGACC GACCGGACAC CCCTGGGGGA CCCTCTCGGA TCACCGCGCT  
 TCTCCTGCGG CCTCCAGGCC AATGTGCAAT ACCAACATGT CTGTGTCTAC CGAGGGTGCT  
 GCAAGCACCT CACAGATTCC AGCTTCGGAA CAAGAGACTC TGGTTAGACC AAAACCATTG  
 CTTTTGAAGT TGTAAAGTC CGTTGGAGCG CAAAACGACA CTTACACTAT GAAAGAGATT  
 ATATTTTATA TTGGCCAGTA TATTATGACT AAGAGGTTAT ATGACGAGAA GCAGCAGCAC  
 ATTGTGTATT GTTCAAATGA TCTCCTAGGA GATGTGTTTG GAGTCCCGAG TTTCTCTGTG  
 AAGGAGCACA GGAAAATATA TGCAATGATC TACAGAAATT TAGTGGCTGT AAGTCAGCAA  
 GACTCTGGCA CATCGCTGAG TGAGAGCAGA CGTCAGCCTG AAGGTGGGAG TGATCTGAAG  
 GATCCTTTGC AAGCGCCACC AGAAGAGAAA CCTTCATCTT CTGATTTAAT TTCTAGACTG  
 TCTACCTCAT CTAGAAGGAG ATCCATTAGT GAGACAGAAG AGAACACAGA TGAGCTACCT  
 GGGGAGCGGC ACCGGAAGCG CCGCAGGTCC CTGTCCTTTG ATCCGAGCCT GGGTCTGTGT  
 GAGCTGAGGG AGATGTGCAG CGGCGGCACG AGCAGCAGTA GCAGCAGCAG CAGCGAGTCC  
 ACAGAGACGC CCTCGCATCA GGATCTTGAC GATGGCGTAA GTGAGCATTG TGGTGATTGC  
 CTGGATCAGG ATTCAGTTTC TGATCAGTTT AGCGTGGAAT TTGAAGTTGA GTCTCTGGAC  
 TCGGAAGATT ACAGCCTGAG TGACGAAGGG CACGAGCTCT CAGATGAGGA TGATGAGGTC  
 TATCGGGTCA CAGTCTATCA GACAGGAGAA AGCGATACAG ACTCTTTTGA AGGAGATCCT  
 GAGATTTCTT TAGCTGACTA TTGGAAGTGT ACCTCATGCA ATGAAATGAA TCCTCCCCTT  
 CCATCACACT GCAAAAAGATG CTGGACCCTT CGTGAGAACT GGCTTCCAGA CGATAAGGGG  
 AAAGATAAAG TGGAAATCTC TGAAAAGCC AAAGTGGAAA ACTCAGCTCA GGCAGAAGAA  
 GGCTTGGATG TGCCTGATGG CAAAAGCTG ACAGAGAATG ATGCTAAAGA GCCATGTGCT  
 GAGGAGGACA GCGAGGAGAA GGCCGAACAG ACGCCCCTGT CCCAGGAGAG TGACGACTAT  
 TCCCAACCAT CGACTTCCAG CAGCATTGTT TATAGCAGCC AAGAAAGCGT GAAAGAGTTG  
 AAGGAGGAAA CGCAGCACAA AGACGAGAGT GTGGAATCTA GCTTCTCCCT GAATGCCATC  
 GAACCATGTG TGATCTGCCA GGGGCGGCCT AAAAATGGCT GCATTGTTCA CGGCAAGACT  
 GGACACCTCA TGTCATGTTT CACGTGTGCA AAGAAGCTAA AAAAAAGAAA CAAGCCCTGC  
 CCAGTGTGCA GACAGCCAAT CCAAATGATT GTGCTAAGTT ACTTCAACTA GCTGACCTGC  
 TCACAAAAAT AGAATTTTAT ATTTCTAACT

FIG. 1B

FIG. 2A

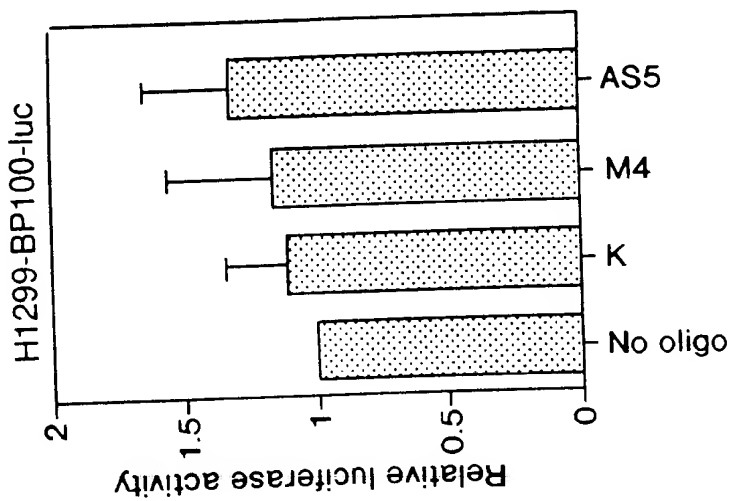


FIG. 3C

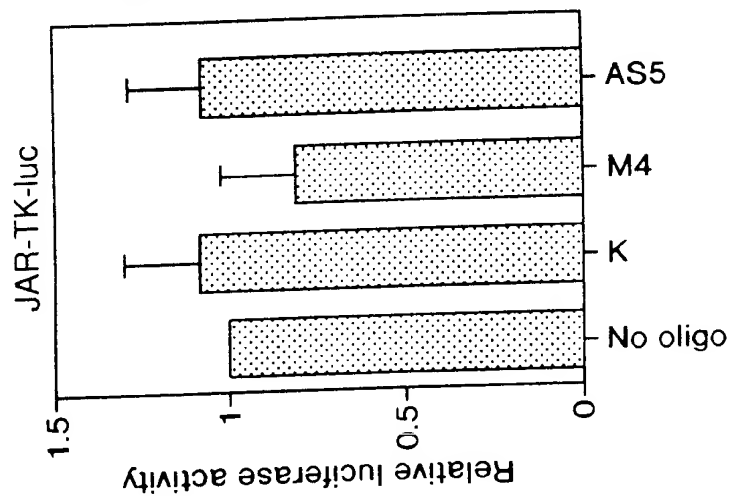


FIG. 3B

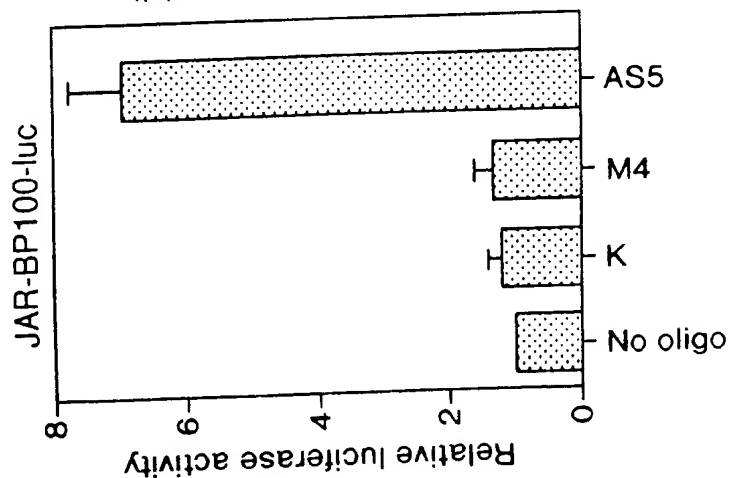


FIG. 3A

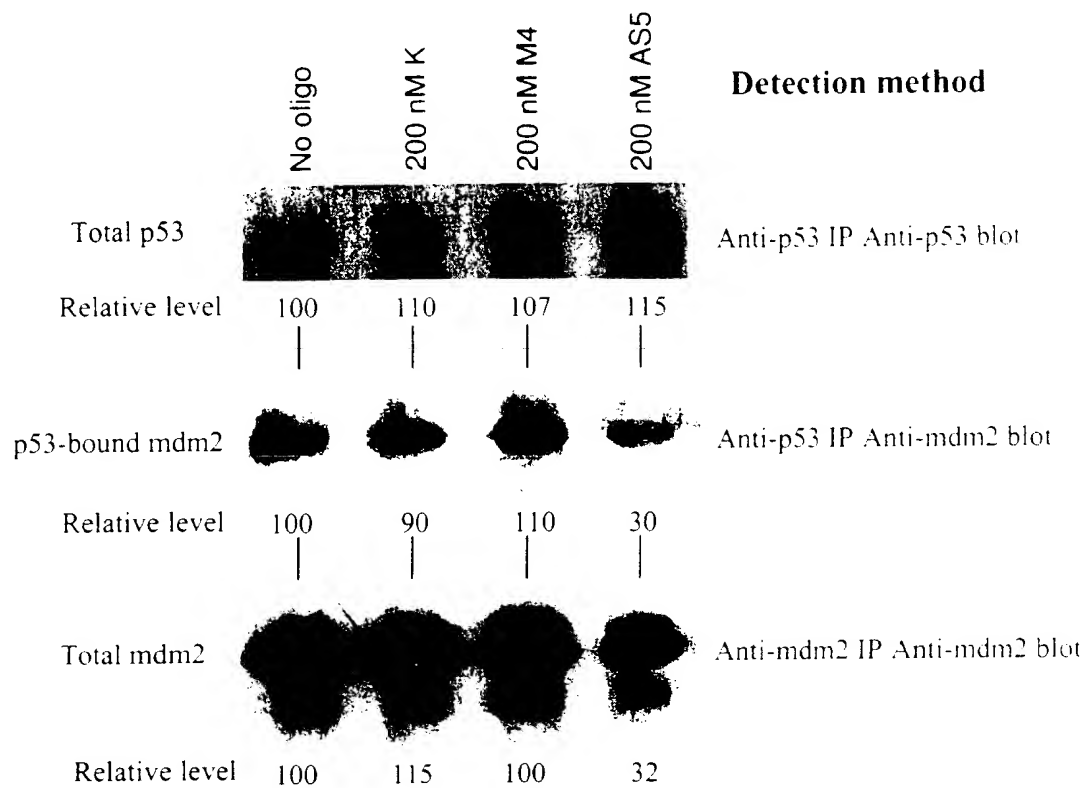


FIG. 4

JAR + 200 nM AS5

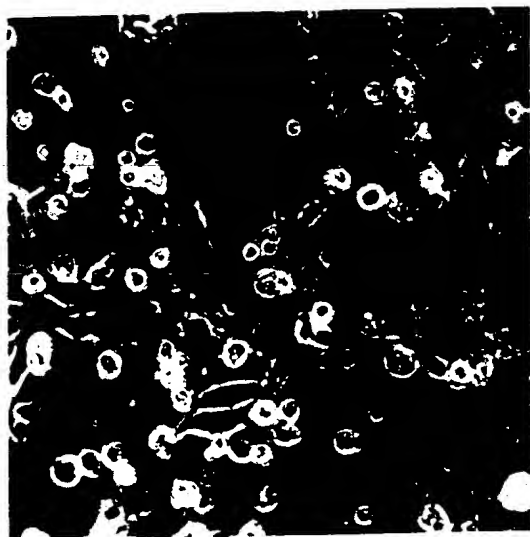


FIG. 5A

JAR + 200 nM M4

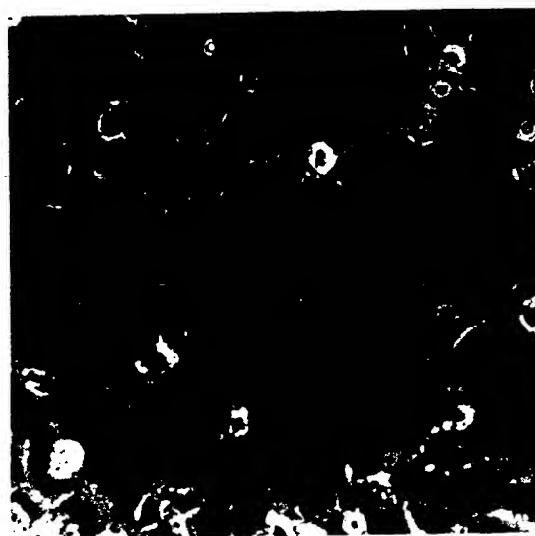
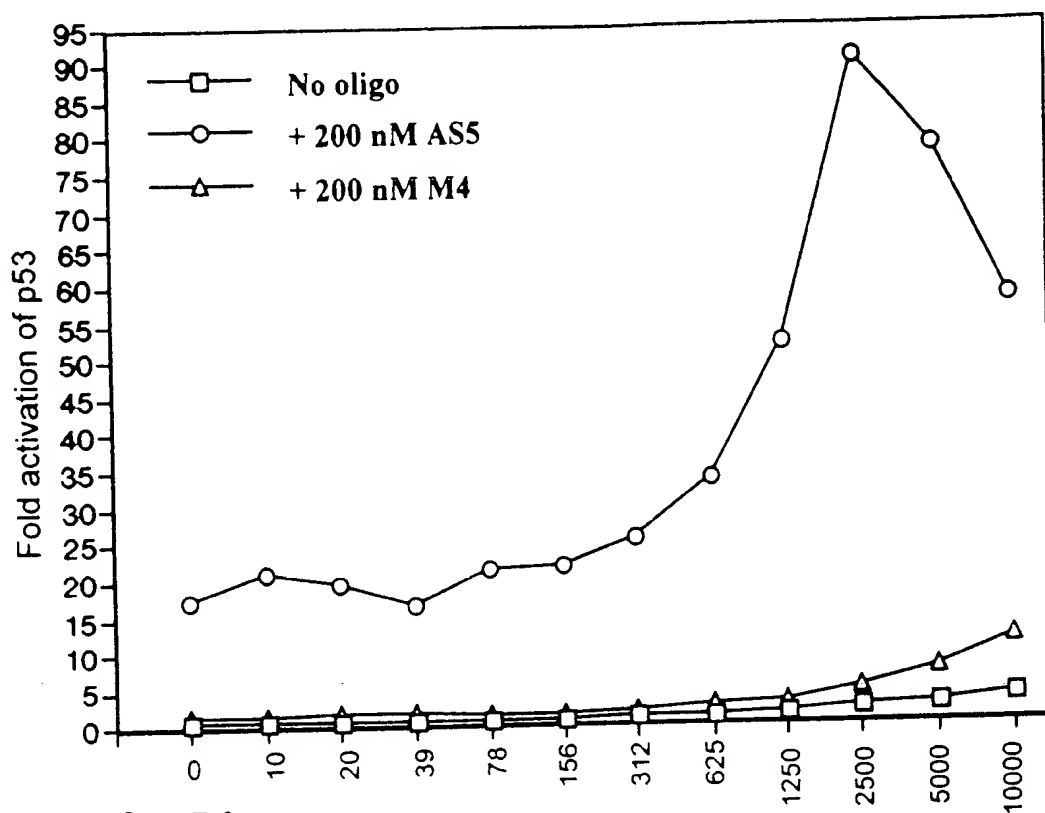


FIG. 5B

002640" 0407450

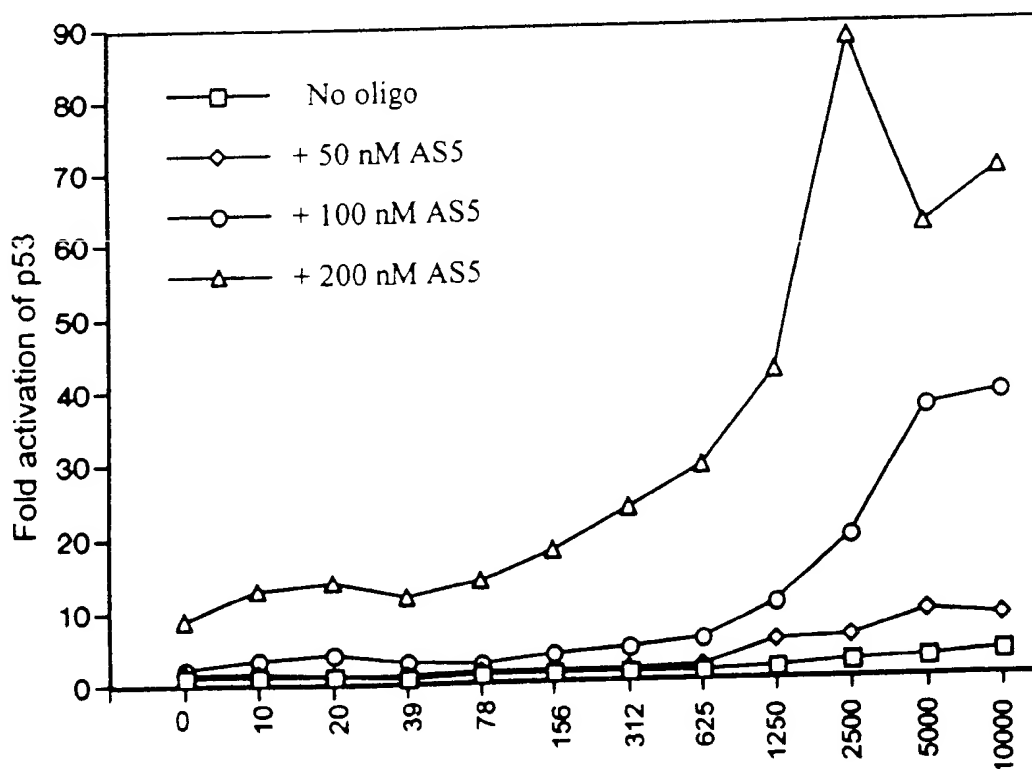


FIG. 6



**FIG. 7A**

CPT concentration (nM)



**FIG. 7B**

CPT concentration (nM)



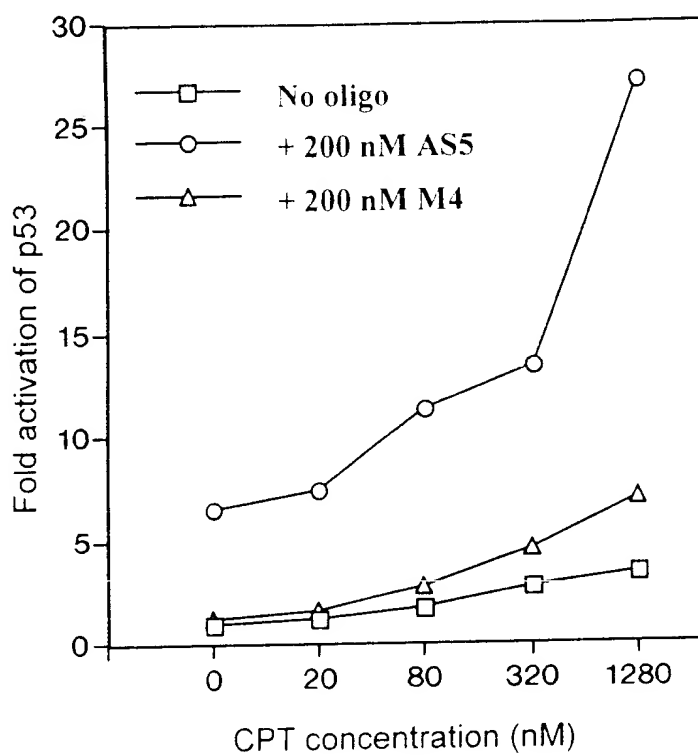
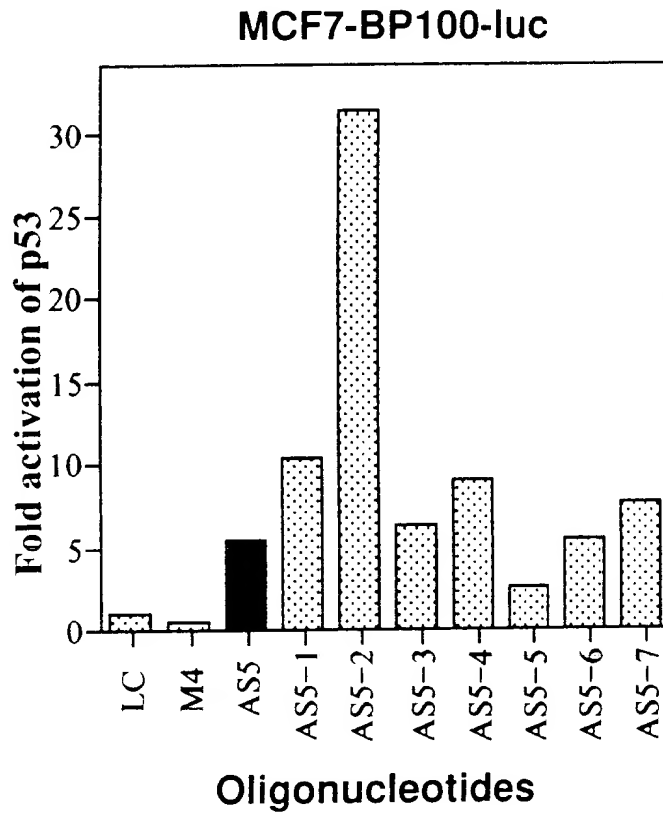


FIG. 7C

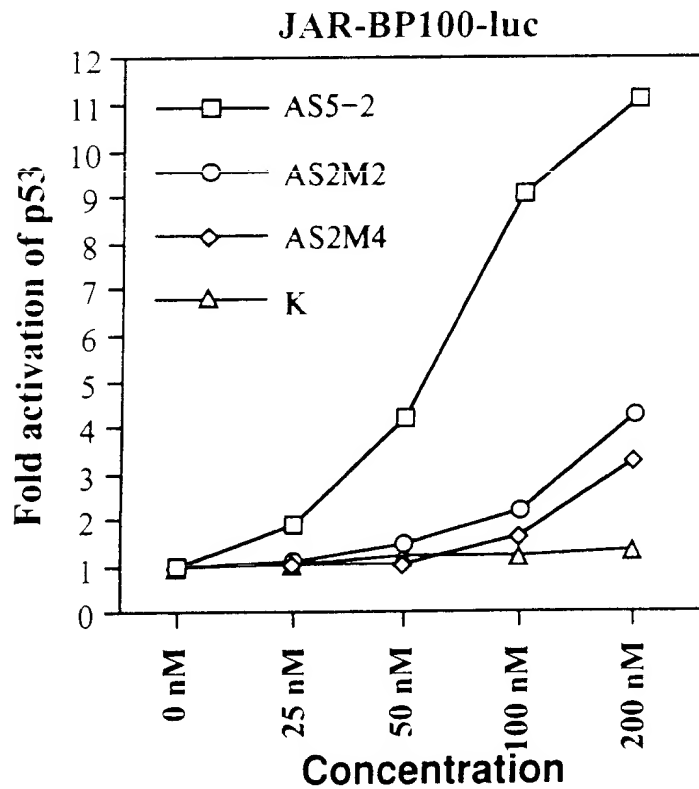
FIG. 8B

353-TCCATGTAGACACTCACTCTTGTCCACAGTGGAACTTCCACCCCTCACTAGTTTCCCTGGAAACATGTTCTCGAA-425 SEQ ID NO: 49  
SEQ ID NO.: 35 AS5-1: TGTAGACACTCACTCTTGTCC AS5: GGAACCTCCACCCCTCACTAG SEQ ID NO.: 28  
SEQ ID NO.: 36 AS5-2: CACTCACTCTTGTCCACAGT AS5-5: ACCCTCACTAGTTTCTCTGG SEQ ID NO.: 39  
SEQ ID NO.: 37 AS5-3: ACTCTGTCCACACAGTGGAAAC AS5-6: CACTAGTTTCTCTGGAAACAT SEQ ID NO.: 40  
SEQ ID NO.: 38 AS5-4: TGTCCACACAGTGGAACTTCCA AS5-7: TTCTGGAAACATGTTCTCGA SEQ ID NO.: 41

FIG. 9A



**FIG. 9B**



**FIG. 9C**

FIG. 10A-1 FIG. 10A-2

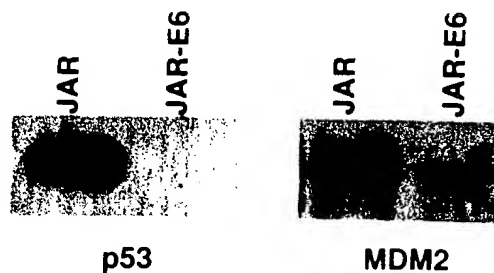
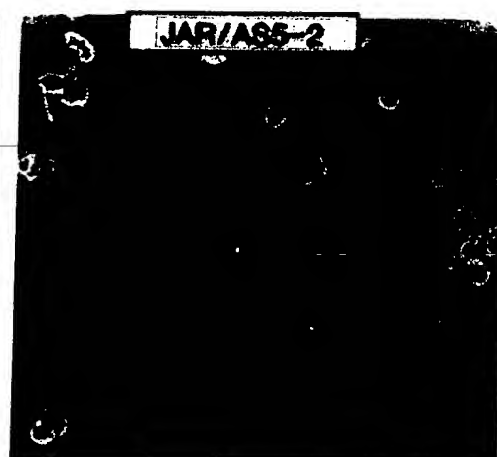


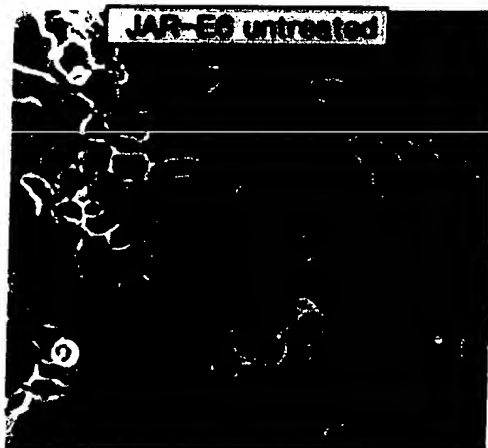
FIG. 10B-1



FIG. 10B-2



JAR-E6 untreated



JAR/AS5-2



FIG. 10B-3

FIG. 10B-4

Control treated

AS5-2 treated

**MCF-7**  
**Breast tumor**



FIG. 11A



FIG. 11B

**SK-N-SH**  
**Neuroblastoma**



FIG. 11C



FIG. 11D

**A172**  
**Glioblastoma**



FIG. 11E

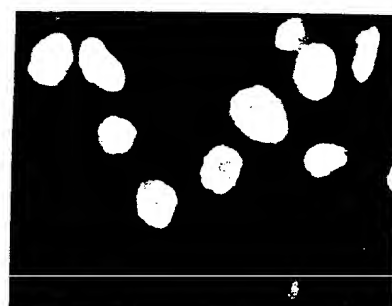


FIG. 11F

**HT1080**  
**Fibrosarcoma**



FIG. 11G

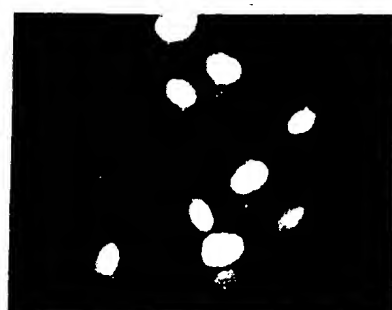


FIG. 11H

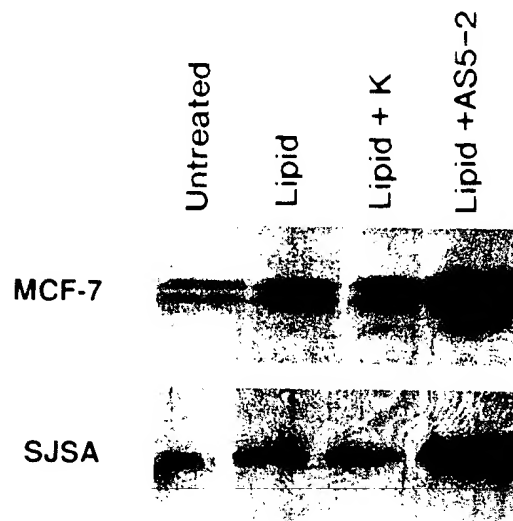


FIG. 12A

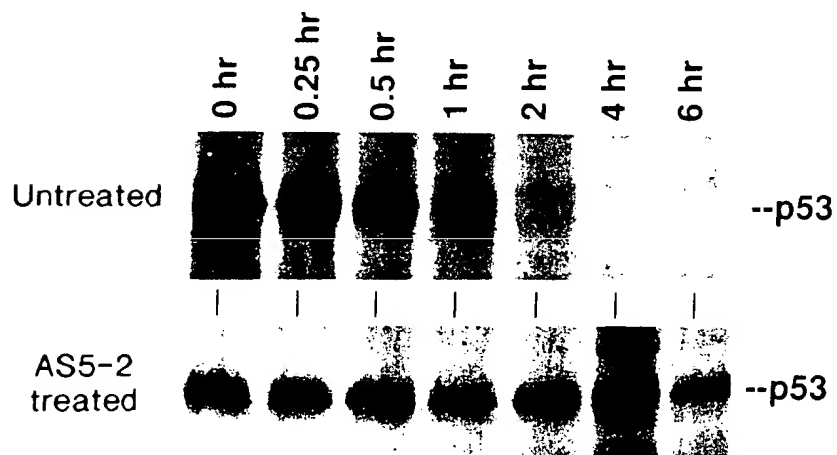


FIG. 12B





Control treated

AS5-2 treated

A high-contrast, black and white photograph of a dark, textured surface, possibly a book cover or endpaper. The surface is covered with numerous small, light-colored, irregular spots and speckles, which appear to be dust, dirt, or perhaps small holes in the material. The lighting is very dark, creating a stark contrast between the dark background and the bright, scattered spots. The overall appearance is grainy and aged.

Condition	BrdU incorporation (approx.)
LC	31
K	46
AS2M4	29
AS2	33

HCPT (3)+ AS5-2HM (5)
HCPT (3)+ AS5-2H (1)
HCPT (3)+ AS5-2H (5)

## Saline

Oligo 2 (1mg/kg)

Oligo 2 (5mg/kg)

Oligo 2 (1mg/kg)  
+HCPT (3mg/kg)

FIG. 17

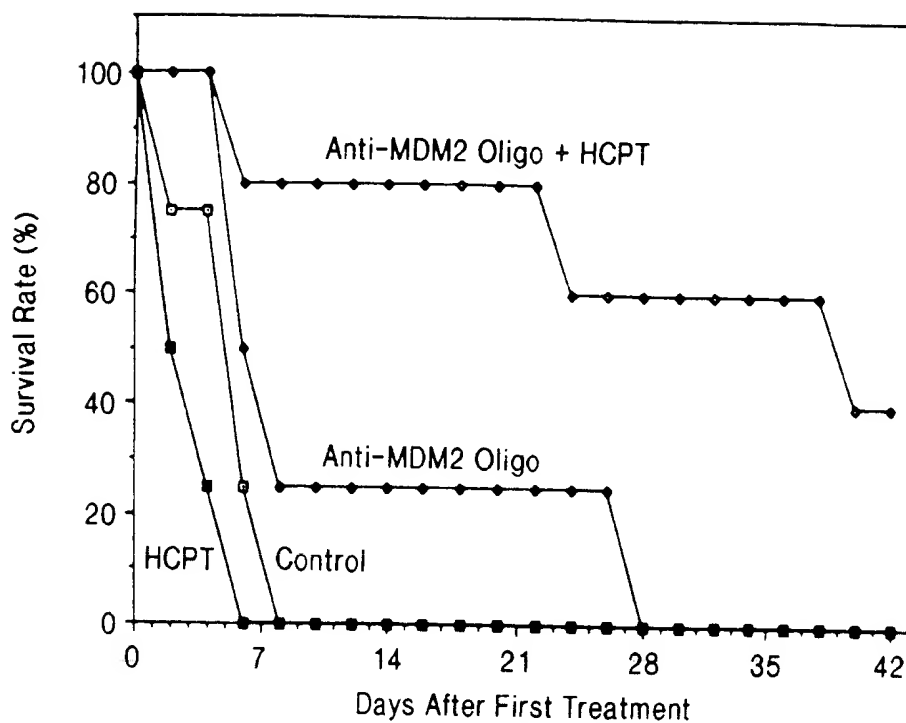


FIG. 18A

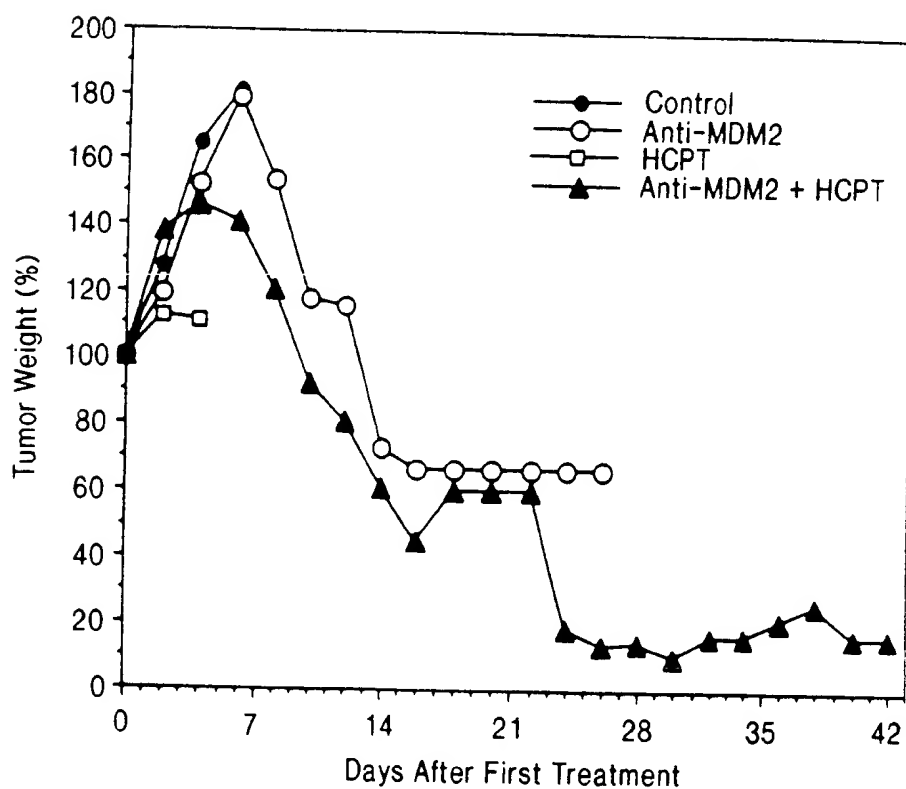
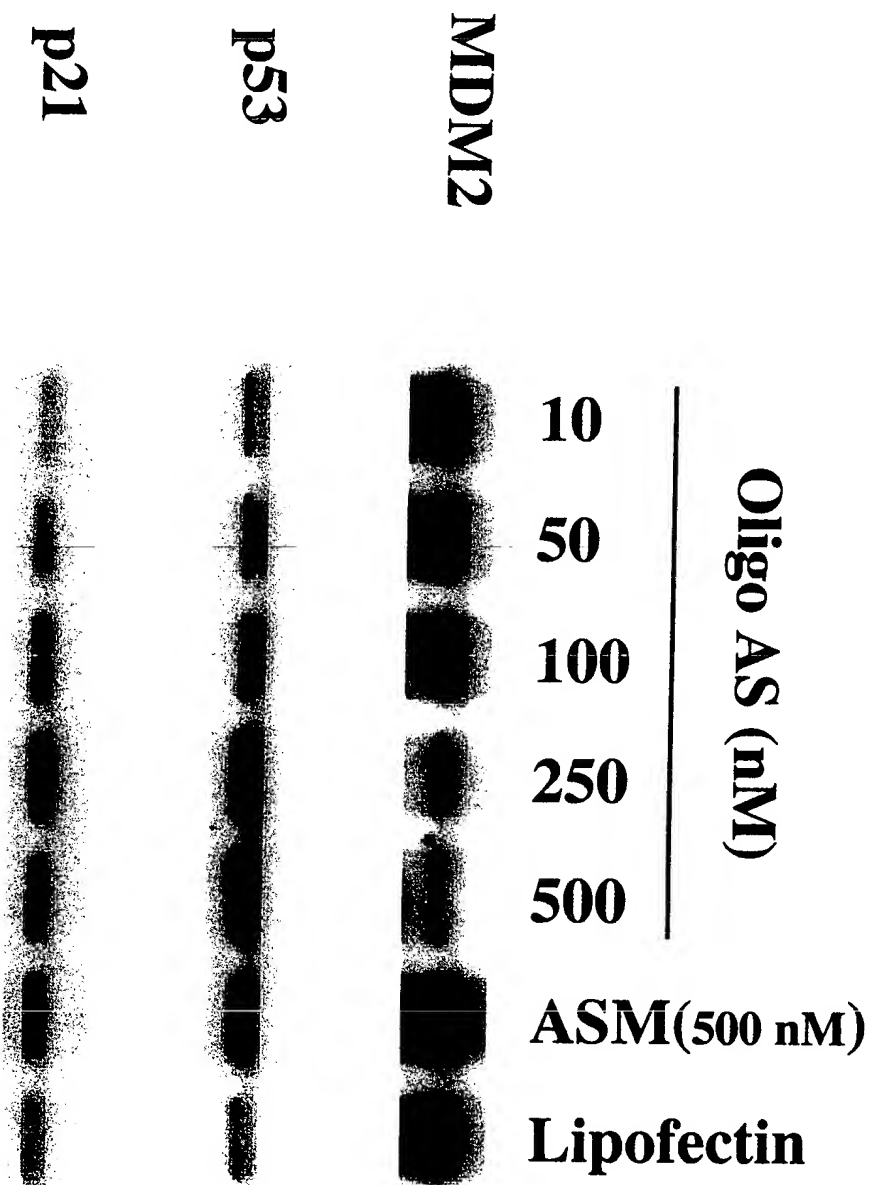
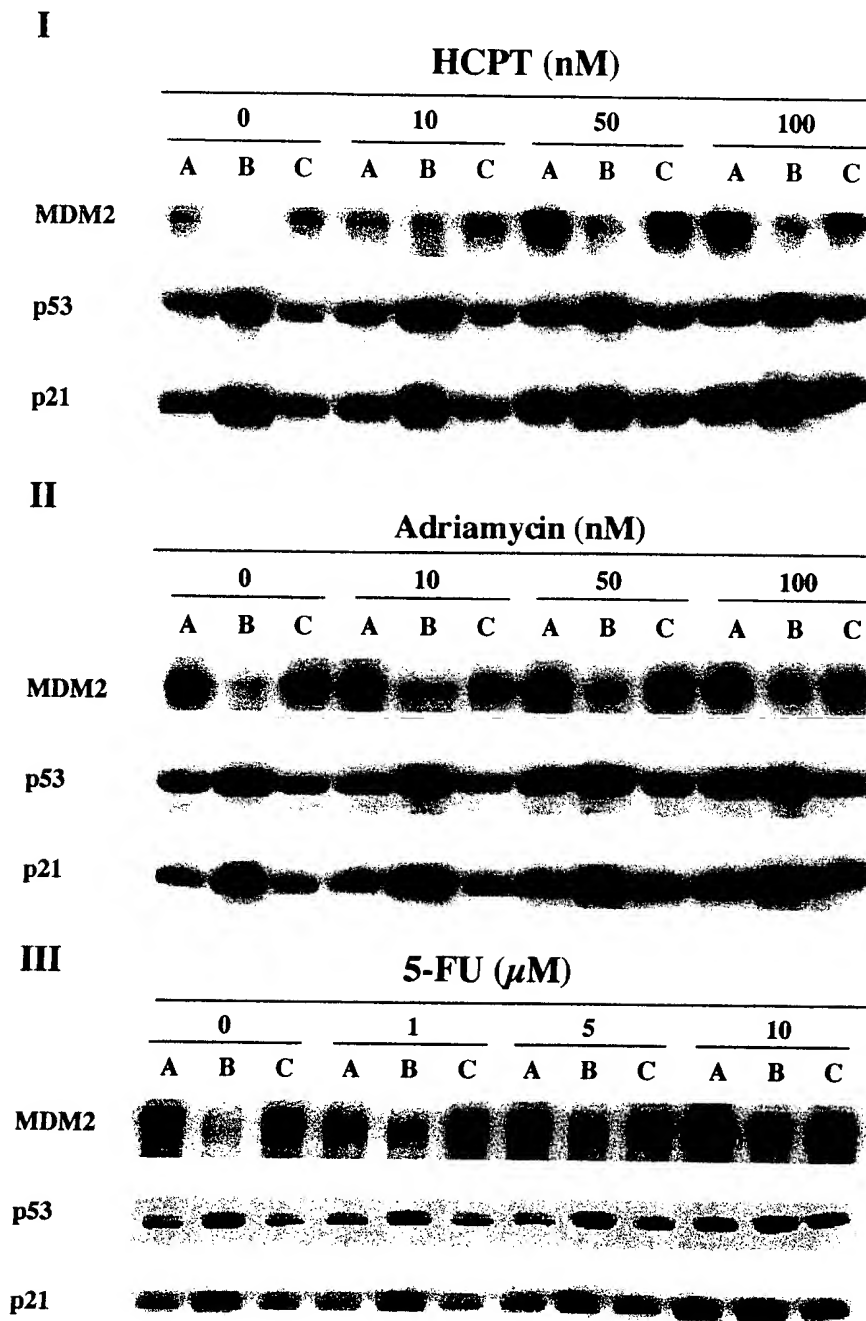


FIG. 18B



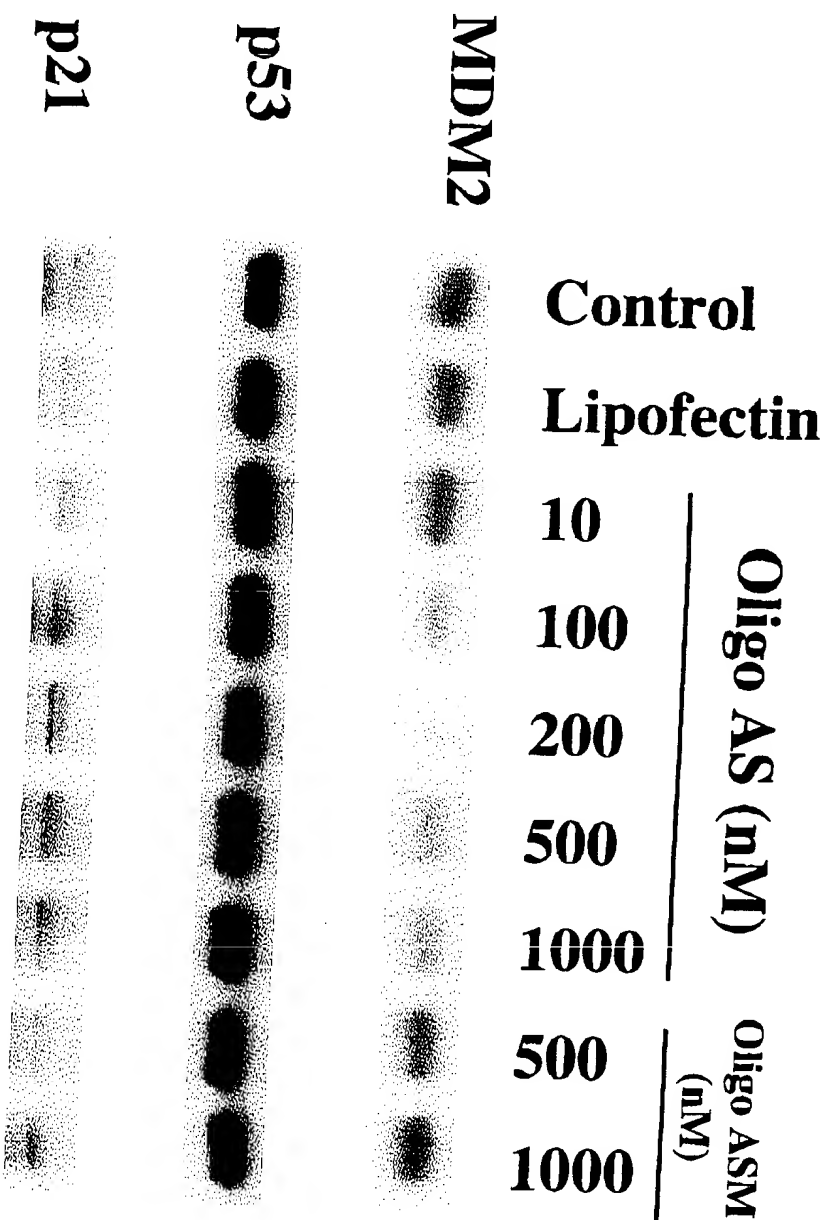
09544849, 040300

000000 "04574560

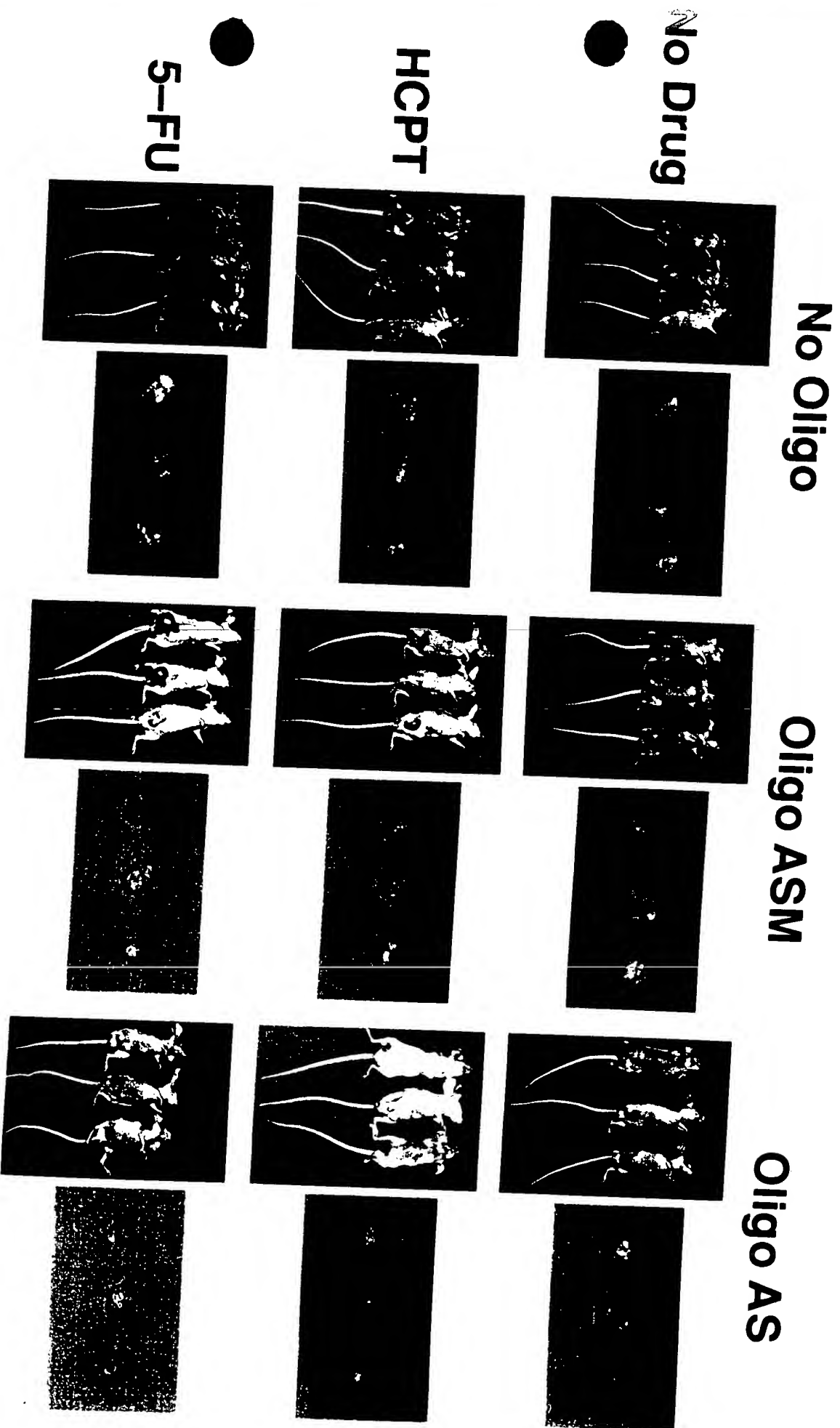




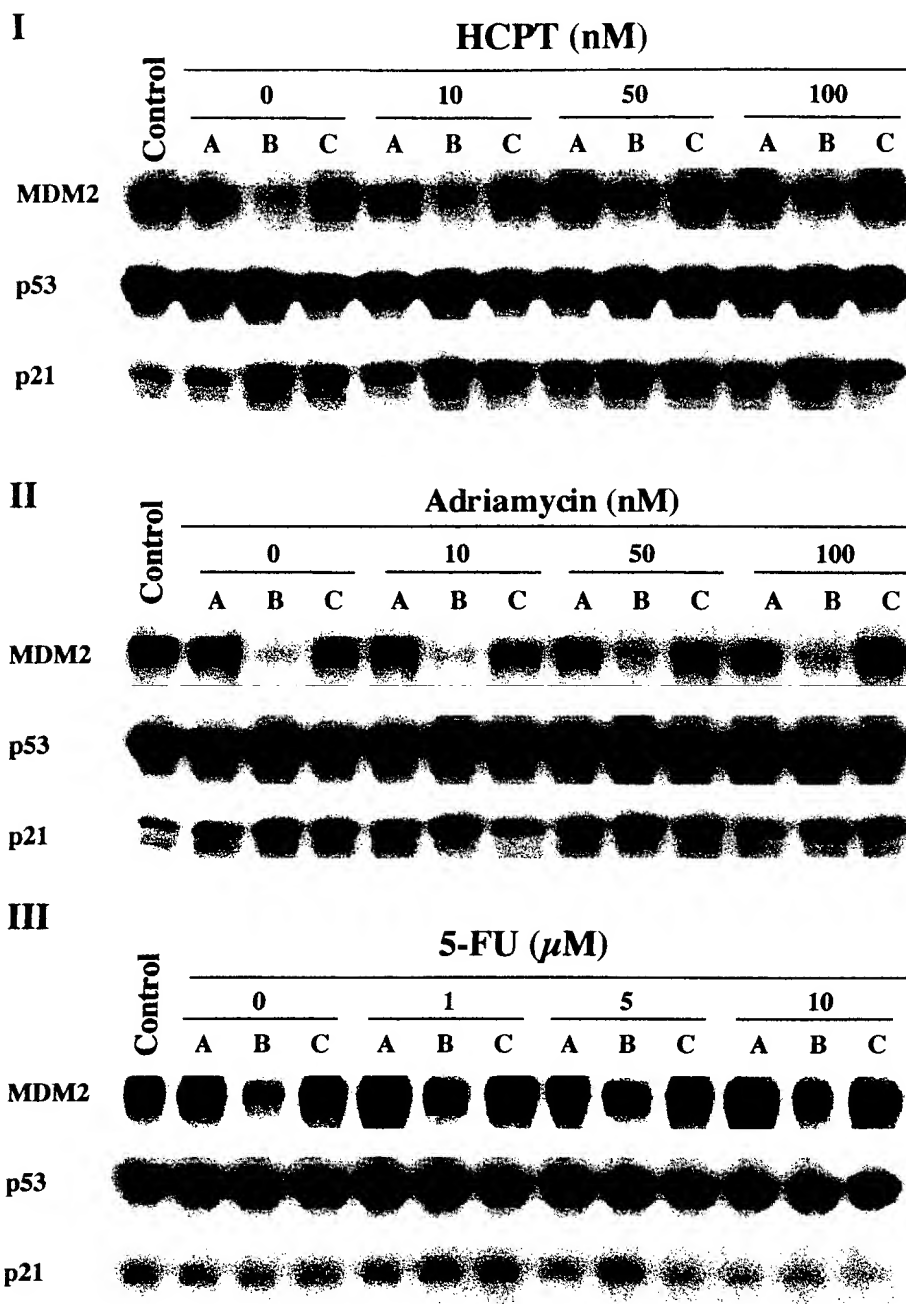




095442946, 040300



09544848, 040300



000040" 845 F4560

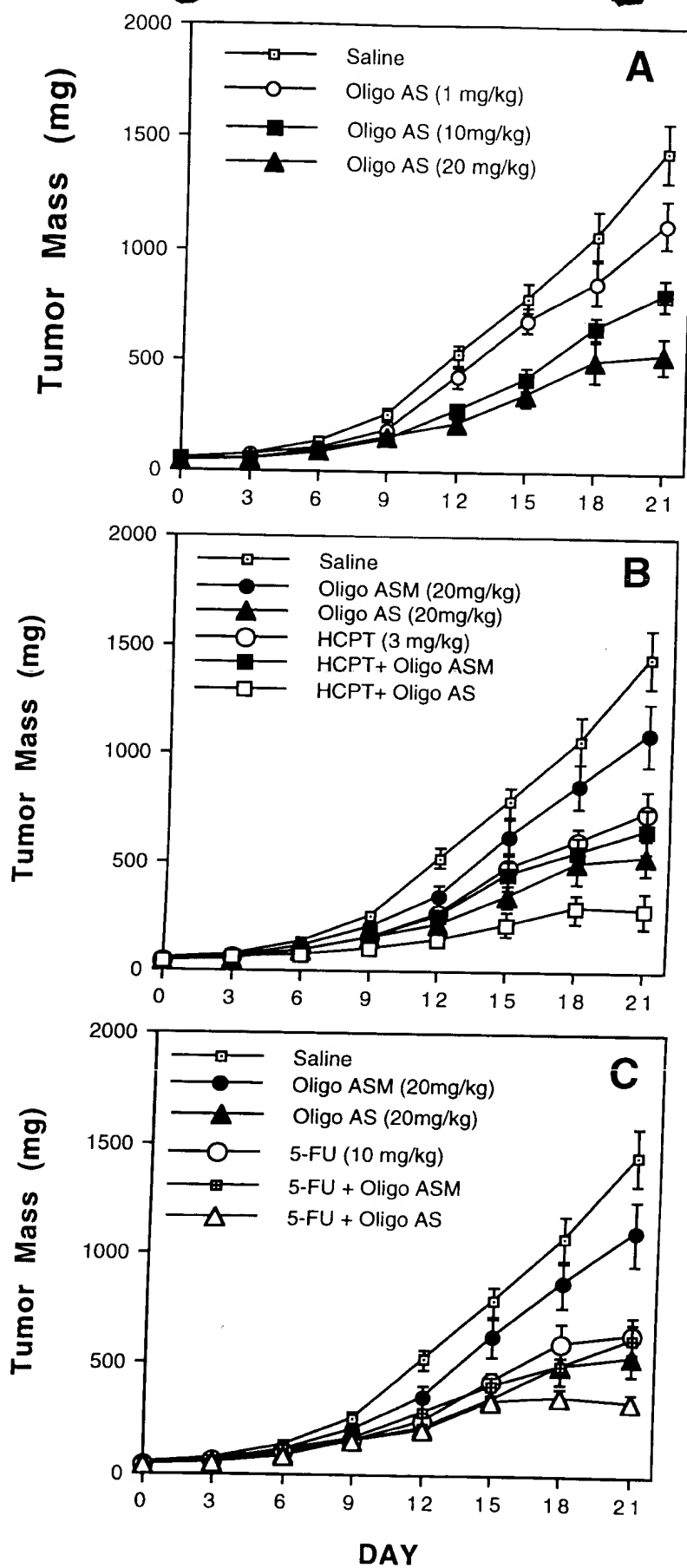


Fig. 25